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NOTICE OF ALLOWANCE AND FEE(S) DUE

64280

7590

05/21/2010

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C.
ONE FINANCIAL CENTER
BOSTON, MA 02111

EXAMINER

CHEN, TE Y

ART UNIT

PAPER NUMBER

2161

DATE MAILED: 05/21/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,004	12/01/2003	Gerd Danner	34874-082/2003P00266US	5231
TITLE OF INVENTION: OPERATIONAL REPORTING ARCHITECTURE				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1510	\$1510	08/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

64280 7590 05/21/2010

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C.
ONE FINANCIAL CENTER
BOSTON, MA 02111

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/726,004 12/01/2003

Gerd Danner

34874-082/2003P00266US

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TITLE OF INVENTION: OPERATIONAL REPORTING ARCHITECTURE

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nonprovisional	NO	\$1510	\$0	\$1510	\$1510	08/23/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHEN, TE Y	2161	707-104100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 442 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 442 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability**Application No.**

10/726,004

Applicant(s)

DANNER ET AL.

Examiner

SUSAN Y. CHEN

Art Unit

2161

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 12/12/09.
2. ☒ The allowed claim(s) is/are 1-8, 10-21 and 24-25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 05/11/2010
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Apu M Mofiz/
Supervisory Patent Examiner, Art Unit 2161

Response to Amendment

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 05, 2010 has been entered.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on May 11, 2010 was filed after the mailing date of the notice of the Notice of Allowance and Fee Due as filed on April 02, 2010. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

This office action is also in response to the amendment filed on Dec. 12, 2009.

Claims 1-21 and 24-25 are pending for examination. Claims 1, 15, 17-18 and 24 have been amended. Claim 25 is newly added.

Telephone Interview

A telephone interview has been conducted between applicant representative (Carl Kukkonen) and the examiner (Susan Chen) on 03/22/2010 and 03/24/2010. In response to the representative's arguments that the prior art on record failed to disclosed the claimed resource adapter integration path processing, the examiner indicated that the processing is performed by a resource adapter direct mapping tool as cited in the instant specification at section 0046, which is the feature of instant application and suggested the representative to amend each of the independent claims to reflect the novelty of instant application. In addition, the examiner also requested the representative to amend the claims for avoiding the possible 35 U.S.C. 101 rejection. The representative agreed and authorized the examiner to make an examiner's amendment based on the proposed amendment submitted on 03/24/2010.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

For the claims submitted on Dec. 12, 2009, please amend the following:

1. (Currently Amended) A system for operational reporting of multidimensional analysis of business data sources, the system comprising:
a plurality of computing systems each including at least one programmable processor, each of the programmable processors systems executing one or more

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computer programs, the programmable processors being coupled to receive data and instructions from, and to transmit data and instructions to, at least one storage system, at least one input device, and at least one output device, the computing systems providing:

- one or more data sources providing OLTP data;
- one or more data acquisition modules to access, in a data access layer, the OLTP data from the one or more data sources;
- a business intelligence (BI) platform having a multidimensional database providing OLAP data, the BI platform being in a service layer;
- a resource adapter direct mapping tool to transform the OLTP data of the data sources not being processed by an OLAP engine or the BI platform to a first data set in accordance with a common meta model of a unified view module, the BI platform being in the service layer;
- the unified view module being part of a data abstraction layer, the unified view module integrating the first data set of the OLTP data with the multidimensional data of the multidimensional database to produce a common meta model data set; and
- a user interface (UI) tool set for creating a unified UI for displaying reports that are run on the multidimensional database and common meta model data set, the unified UI to build reports from the common meta model data set;
- the system including at least first and second data flow integration paths originating at the data sources and passing through the data access layer, the service layer, and the data abstraction layer, the first integration path comprising the OLTP data and the resource adapter direct mapping tool and having a first service quality, and the second integration path comprising the BI platform and having a second service quality being different from the first service quality, the first service qualities being dependent on the services used by the first integration path, the second service qualities being dependent on the services used by the second integration path, and wherein the first and second service qualities are at least different in that the second service quality comprises at least some overhead of the BI platform that is not included in the first service quality, the system further comprising a resource adapter integration path allowing integration of OLTP data and external OLAP data without using the OLAP engine or other services of the BI platform.

2. (Previously Presented) A system in accordance with claim 1, further comprising a UI runtime module to display the unified UI.

3. (Previously Presented) A system in accordance with claim 1, further comprising a data acquisition module to acquire the OLTP data from the OLTP data source, and to provide the OLTP data to the multidimensional database or to the unified view module.

4. (Previously Presented) A system in accordance with claim 1, wherein the BI platform is to execute OLAP analysis on the multidimensional database.

5. (Original) A system in accordance with claim 4, wherein the BI platform further includes a communication channel connected to a remote OLAP data source.

6. (Previously Presented) A system in accordance with claim 3, wherein the data acquisition module further includes one or more resource adapters for connecting to the one or more data sources, the resource adapted being a system-level software driver to connect the one or more data sources.

7. (Previously Presented) A system in accordance with claim 3, wherein the data acquisition module further includes one or more extraction programs to read data from the one or more data sources.

8. (Original) A system in accordance with claim 3, wherein the data acquisition module further includes an exchange infrastructure for message-based exchange between the one or more data sources and the BI platform.

9. (Canceled).

10. (Currently Amended) A system in accordance with claim 1 [[9]], wherein the mapping is automatic.

11. (Currently Amended) A system in accordance with claim 1 [[9]], wherein the mapping is manual.

12. (Original) A system in accordance with claim 4, wherein the BI platform further comprises a persistency memory for storing one or more tables representing the OLAP analysis.

13. (Original) A system in accordance with claim 1, wherein the unified UI is generated by a web application.

14. (Original) A system in accordance with claim 1, wherein the unified UI is generated by a desktop application.

15. (Currently Amended) A computer-implemented [[n]] architecture for integrating online transactional processing (OLTP) systems with online analytical processing (OLAP) system, the architecture comprising:

a plurality of computing systems each including at least one programmable processor, each of the programmable processors systems executing one or more computer programs, the programmable processors being coupled to receive data and instructions from, and to transmit data and instructions to, at least one storage system, at least one input device, and at least one output device, the computing systems providing:

a data access layer including one or more data access programs for accessing OLTP data from an OLTP data source;

a service layer including a business intelligence (BI) platform for generating OLAP data, and a resource adapter direct mapping tool for transforming data from the OLTP data source to a first data set in accordance with a common meta-model without processing the OLTP data by an OLAP engine or the BI platform, the BI platform providing persistency and comprising an OLAP engine;

a unified view module being part of a data abstraction layer that provides the common meta-model for OLTP data of the first data set integrated with OLAP data, the data abstraction layer providing a description of the meta-model and a result set of the data, interfaces to retrieve and interact with the data, and a description of functionality available with data sources; and

a user interface presentation layer to provide a user interface for displaying a report run on the integrated OLTP and OLAP data, the user interface presentation layer comprising a user interface (UI) tool set for creating a unified UI for displaying reports that are run on the multidimensional database and common meta model data set in a same report, the unified UI to build reports from the common meta model data set;

the architecture including first, second, and third data flow integration paths, the first integration path comprising the OLTP data and [[a]] the resource adapter direct mapping tool and having a first service quality, and the second and third integration paths comprising the BI platform and having a second service quality being different from the first service quality, the first service qualities being dependent on the services used by the first integration path, the second service qualities being dependent on the services used by the second integration path, and wherein the first and second service qualities are at least different in that the second service quality comprises at least some overhead of the BI platform that is not included in the first service quality, the second integration path using the OLAP engine in the BI platform, data accessed by the third integration path storing data using the persistency of the BI platform; the third integration path using the OLAP engine in the BI platform, data accessed by the third integration path not using the persistency of the BI platform to store data.

16. (Original) An architecture in accordance with claim 15, wherein the common meta-model is organized into a unified business query view for display in the user interface.

17. (Previously Presented) An architecture in accordance with claim 15, wherein the user interface presentation layer includes a design time module for generating the user interface, the design time module using the meta-model provided by the data abstraction layer to allow reports to be built upon the meta-model.

18. (Previously Presented) An architecture in accordance with claim 17, wherein the user interface presentation layer includes a runtime module having an application for displaying the user interface, the runtime module obtaining data and service quality descriptions from the data abstraction layer and layout information from the design time

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module, wherein a user interface abstraction layer within the runtime module provides a common command and layout description interface for both web and desktop-based user interface presentations.

19. (Original) An architecture in accordance with claim 18, wherein the application is a web application.

20. (Original) An architecture in accordance with claim 18, wherein the application is a desktop application.

21. (Previously Presented) A system in accordance with claim 1, wherein the unified view module does not include information identifying sources of data in the common meta model data set such that a mapping of the data is not visible to a user of the common meta model data set.

22-23. (Canceled).

24. (Currently Amended) A system comprising:
a plurality of computing systems each including at least one programmable processor, each of the programmable processors systems executing one or more computer programs, the programmable processors being coupled to receive data and instructions from, and to transmit data and instructions to, at least one storage system, at least one input device, and at least one output device, the computing systems providing;

one or more data sources providing OLTP data;

one or more data acquisition modules to access, in a data access layer, the OLTP data from the one or more data sources;

an exchange infrastructure in the data access layer for process integration based on an exchange of standard messages according to predefined business process scenarios;

a business intelligence (BI) platform having a multidimensional database providing OLAP data, the BI platform providing persistency, an OLAP engine, generic BI services, and business warehouse metadata, the BI platform being in a service layer;

a resource adapter direct mapping tool to transform the OLTP data of the data sources not being processed by an OLAP engine or the BI platform to a first data set in accordance with a common meta model of a unified view module, the BI platform being in the service layer;

the unified view module being part of a data abstraction layer, the unified view module integrating the first data set of the OLTP data with the multidimensional data of the multidimensional database to produce a common meta model data set, the data abstraction layer providing data manipulation services that enable interaction on data independent from, and in addition to, data manipulation services by the service layer or the data sources; and

a user interface (UI) tool set for creating a unified UI for displaying reports that are run on the multidimensional database and common meta model data set, the unified UI to build reports from the common meta model data set;

the system including at least first and second data flow integration paths originating at the data sources and passing through the data access layer, the service layer, and the data abstraction layer, at least one data flow integration paths passing through the BI platform and at least one data flow integration paths bypassing the BI platform.

25. (Previously Presented) A system as in claim 24, wherein: the first integration path comprises the BI platform and has a first service quality, and a third integration path comprises the BI platform and has a second service quality being different from the first service quality, the first service qualities being dependent on the services used by the first integration path in the BI platform, the second service qualities being dependent on the services used by the third integration path in the BI platform, and wherein the first and second service qualities are at least different in that the second service quality comprises at least some overhead of a persistency layer in the BI platform that is not included in the first service quality, the persistency layer in the BI platform storing data in structures optimized for reporting purpose.

Allowable Subject Matter

Claims 1-8, 10-21 and 24-25, are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 1, 15 and 24, are allowable because the prior art on record or that encountered in searching for the invention, fails to disclose or suggest the features of instant invention – “a business intelligence (BI) platform having a multidimensional OLAP database wherein the BI platform in a service layer including a resource adapter direct mapping (RDMA) tool that transforms the data from OLTP through the claimed service layer, data access layer and data abstraction layer for allowing a direct path

integration of the OLTP and external OLAP data into an operational reporting architecture without using OLAP engine or other service of the BI platform in a combination as recited by applicant. In addition, the Office regarded that the prior art on record does including the Oracle Warehouse Builder (OWB) as disclosed in the IDS(s) filed on May 11, 2010.

Claims 2-8, 10-14, 16-21 and 25, depend on claims 1, 15 and 24 respectively, hence are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUSAN Y. CHEN whose telephone number is (571)272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mofiz Apu can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Susan Y Chen/
Partial Sig. Examiner
Art Unit 2161

May 12, 2010

/Apu M Mofiz/
Supervisory Patent Examiner, Art Unit 2161